

Product datasheet for **SC113289**

ETAA1 (NM_019002) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ETAA1 (NM_019002) Human Untagged Clone
Tag:	Tag Free
Symbol:	ETAA1
Synonyms:	ETAA16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_019002, the custom clone sequence may differ by one or more nucleotides

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ATGAGTCGGCGAAGGAAACATGATGACAGCCCTAGCCCGAAGAAAACGCCGCACAAAACAGTGGCGGCGG
AGGAATGCGGCTCGGTGGTCTGAGCCAGGGAGGAGCGGCTGAGATCGGCCCGCGGTTCTGGCCCTGCGG
GGCTAGAGAGGGGCTCCCGGGCCAGTGGCGCAGCGAGAGCAGCCTCCGACCGCCGCCCTGTGCAGTAAA
AGTAACCCCGAGGAAAGGTATGAAACACCAAGAGAGCGCTGAAAATGGACTCACTGTCTCTTCTTCA
GTTCTCTAATGATCCAGATGGACAGAATGATATCTTTGGGATCAGAATTCTCCATTGACAAAAGCAGTT
AGGTAAAGGAAGAAAAAACAGATTTACACCACAGATAGTGATGAGATTTACATATTGTTAATCGTATT
GCTCCTCAGGATGAAAAACCAACAACAAATTTCTATGCTGGACATGTGGATTGGTGAAGTCTATTCCCTT
GTAATCCAGTGTAGCAAAAGGAAAAATCAAGAGCAAAAATCAGCTGCACAAAGTAAAAACACAAAGTCA
AGAAGAAGAACTTATGAACTGGCTAAACAATTTGATAAAAATATGGAAGAGCTAGATGTGATTCAAGAG
CAAAAACAGAGGAATTATGATTTTACCCAGATGATTTTCAAAAACAGAGATTTTAAAGTAATTATAAGATA
ATATACAGATGTGGTCTTACATAATATAGTTCCCGAAAATAGATAATGCTACAAAAAGCCAATCAAAGG
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GCCTTTAATGCTATTTTTGATGGTTCTACTCAGAAATGTAGCGGACAGTTAAGCCAAAGAACTGCCAGAGG
CTTTTTGGAGCACCAGTAATACTACCTTTGTAAGACAAAATGCTTTGAAAGAGGAGAAAAATCATTACTAA
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TACTACAAGTGATTTTGGAGGATGATTTGGGAAAACCTTACTAGGTAGTGAACCTTTTGCTATGCAAAAAT
CGACATGCCTGAACTCTTCTTCTAAAACAGCCCATGTTACTGATCAAAAAGGAAATTTGTACCTTTAAT
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TACAAGATCTTTTCTTCAAGACATATGACAGAGAATTAATAGATGCAGAATATAGATTTTACCAAATTC
AAATAAATCAAACAAATTATCCACTGGAATAAAATGAAATTTGAGAACTCTTCCATAAAATTTGTTATT
CAAGACGAAATTCAAAATTTGATAGTTACATCTAATCTGACAAAAATAAAGGAAGATATTCTTACTAACT
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TTTAAATCAGTCTATTAAGCCCTGTTAATACTGATCTTTTTGGCTCTGCAAACTAGGCAGTAAAACC
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CATTTGCCAATGAAATTTAAAGCATGTCATCAATTAGATAATACCTGGGAAGCAGATGATGTAGATGA
TGATTTGTTGTACCAAGCATGTGATGATATTGAAAGACTAACTCAGCAACAAGACATTAGAAAGGACAGT
AAGACATCAGAAAGTATATGTGAGATCAATAAATATCCGAACATGGAGCCAAACTAACTCAGCAACAAG
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AAACATGTTTGCTATATCTAAACAAGGAAGTAATTTGGTACAATCAAAGCATTGAAATCCAGGCAGCATT
TCAGTGCAGACATCTTTGACAAAATAGCTCACAATAAGCAATGAAGATGGAGAAAGGGGAAATGT
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ATTTTCAAAGTTTACATTTACAAGGATGAAAAATTTCTCAGATTCTTTCTCAGTTAATCAAATTTGATA
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AGGAAGCTGTTGGACAGCAATCTTTGGTAAAATTTCTGAATCTTTGAAACAATCTTCAAAGAGGGAAGA
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GCTAAAGCAGGAGCTCATCTGTAATGCAGCTCCCACTTCATTTCTTTAA
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_019002 unedited</p> <pre>GGGGGTCAGAANNGNATACGACTCATATAGGCGGCCGCGNAATTCGCACGAGGGCGGTTT GTAGTGTCTGTTGCCCTACTCATCCCTTTGCAAAATGTGAAAGAAGAAGCGGCTGGTGGAG GCGGGCCATAGGCAATGAGTCGGCGAAGGAAACATGATGACAGCCCTAGCCCCAAGAAAA CGCCGCACAAAACAGTGGCGGCGGAGGAATGCGGCTCGGTGGTCGAGCCAGGGAGGAGGC GGCTGAGATCGGCCCGCGGTTTCGTGGCCCTGCGGGGCTAGAGAGGGGCCTCCCGGGCCAG TGCGGCAGCGAGAGCAGCCTCCGACCCGCGCCCTGTGCAGTAAAAGTAACCCCGAGGAAA GGTATGAAACACCAAAGAGAGCGCTGAAAATGGACTCACTGTCTCTTCCTTCAGTTCTC CTAATGATCCAGATGGACAGAATGATATCTTTTGGGATCAGAATTCTCCATTGACAAAGC AGTTAGGTAAAGGAAGAAAAAACAGATTTACACCACAGATAGTGATGAGATTTACATA TTGTTAATCGTATTGCTCCTCAGGATGAAAAACCAACAACAAATTCTATGCTGGACATGT GGATTGGTAAACTGCTATTCCTTGTACTCCCAGTGTAGCAAAGGAAAAATCAAGAGCAA AAATCAGTGCACAAAGTAAAAACACAAAGTCAAGAAGAAGAACTTATGAACTGGCTA AACAAATTTGATAAAAATATGGAAGAGCTAGATGTGATTCAAGAGCANAAACAGAGGNAAT ATGATTNTACCCAGATGATTTTCAGAAACAGAGATTTTAAAGTATTATAANNGATATATAC AGATGTGGTCATTACATAATATAGNTCCNGAATAGATNATGCTACANAAAAGCCAATN</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_019002 unedited</p> <pre>CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAAGTTGAAGTTTTTTATTAGGAAAA GACATTAGAATAGGAAATAACGTAGATTACCTCTTTTTTGATGATCCTCTGCAATAATAG CATTTAAAAATATAACTACTTTCCTCTGTATAATATCCGTACATAATTGCTAACTTTCCT GAATTTCCAAAACTTTTGTATTTAATGACTTTCAAATACATGTCCAAGGAAATGTTTCAT TTACCATTGCAAACATTGATTTATTAATAAAGTAGAAGTCCAGGCTTTATAAAAGTCAG CATTACATTTCTCACAGAGAAATCAAGAAAAAAATTTCCATCAATCACAGATAGTTAT CAGCAGTCTTCGTGAAGTCTTCCAATAATTTTCATTAAGAAATGAAGTGGGAGCTGC ATTTACAGATGAGGCTCGTGCTTTAGCCATTCTCCGAACCCAGTGCCTTCTGTCTTTTTCT CTGAATTTCTTCAGGAGAACACTTTCTATTTTTCTCTTCTTCTTCTTTTGAAGATTGTTT CAAAGATTCAGAAAGTTTCACCAAAGATTGCTGTCCAACAGCTTCTCCAGTAATGGGTT GACACCTTTCTTNTCTCCACACCCTGTGAATTTTGGTATCAGACATACTTCCAGTTAT ACAATNTGATTAACCTGAGAAAGAATCTGAGAATTTTTTCATCCTTGAAATGTAACCT TGAAAATCCAACCTGTTGTGTTAAGGTTGCTCTGAGCTTCATCTGTTACAGTCTTATGGCA TGGCTGATTAGTACTCAATTTCTCCTATAAGAGNAATTTCTGTATCATATGATCTGAAGT ACATTCAAACTGAACTTCTGGAAGACCAATTTGGACTATTACTTGTATGAACATCAGGTT AGTATAAACCTGCGATTATTTTTCGACGNTGGGACCTAAATACTAAGCAANTTGGGCAC TAAAAATCTGGAATNCATCCTTCCCTTTCCATTCATGG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_019002
Insert Size:	3630 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_019002.2](#), [NP_061875.2](#)

RefSeq Size: 3454 bp

RefSeq ORF: 2781 bp

Locus ID: 54465

UniProt ID: [Q9NY74](#)

Cytogenetics: 2p14

Gene Summary: Replication stress response protein that accumulates at DNA damage sites and promotes replication fork progression and integrity (PubMed:27601467, PubMed:27723720, PubMed:27723717). Recruited to stalled replication forks via interaction with the RPA complex and directly stimulates ATR kinase activity independently of TOPBP1 (PubMed:27723720, PubMed:27723717). Probably only regulates a subset of ATR targets (PubMed:27723720, PubMed:27723717).[UniProtKB/Swiss-Prot Function]